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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/053,771	01/24/2002	Hiroyuki Shingai	C32-141051M/TBS	4266	
7590 03/26/2004			EXAM	EXAMINER	
McGinn & Gibb, PLLC			TAMAI, KARL I		
Suite 200 8321 Old Cour	thouse Road		ART UNIT	PAPER NUMBER	
Vienna, VA 22182-3817			2834		
			DATE MAILED: 03/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/053,771	SHINGAI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Tamai IE Karl	2834					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONEE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 18 De	ecember 2003.						
	_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) 7 and 8 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>03/19/2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>01/24/2002</u> .	5) \(\bigcirc \text{Notice of Informal Pa} \) 6) \(\bigcirc \text{Other:} \(\bigcirc \text{Dot} \)	atent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I claims 1-6 in Paper dated 12/18/2003 is acknowledged. Claims 7 and 8 are withdrawn from consideration.

Specification

- 2. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification, including misspellings such as "beating" instead of bearing.
- 3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

4. Claims 1-6 are objected to because of the following informalities: misspelling such as "beating" instead of bearing in claims 1, line 11 and claim 4, line 2.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogata et al. (Ogata)(JP 02-156,469). Ogata teaches a molded motor bearing housing 4 with a stepped portion 33 midway on the inner periphery surface that is formed from two molds 28, 29 where one mold has a first inner periphery surface 29a which is continuously molded with an opening of the bearing hole and the second mold has a second cavity portion and a plurality of shaped portions to form the stepped portions 28e-f. The shaped portions having an outside diameter greater than the inner diameter of the first inner periphery portion (d2>d1 shown as in figure 1B) and extend axially to the stepped portions. The first and second molds being coaxial and inherently part of the molding cavity at mold closing, so that molten resin can be introduced into the cavity. The bearing housing holding radial ball bearings.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata et al. (Ogata)(JP 02-156,469) and Kawai et al. (Kawai)(JP 2-128351). Ogata teaches every aspect of the invention except both metal and ball bearings. Kawai teaches the use of both metal and ball bearings in a motor to provide enhanced rotational accuracy and easy assembly. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Ogata with the both metal and ball bearings to provide enhanced rotational accuracy and easy assembly.
- 10. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata et al. (Ogata)(JP 02-156,469) and Hamman (US 4318573). Ogata teaches every aspect of the invention except an oiled, sintered, metal bearings with recessed portions for escaping the stepped portion. Hamman teaches a sintered, oil, metal bearing for use in a motor recess portions mating with the bearing support which inherently allow for removal/escape of the bearing from the step. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of

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Ogata with the recessed portions on a metal bearings as in Hamman to provide inexpensive bearings with long life.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER March 14, 2004

> KARL TAMAI PRIMARY EXAMINER